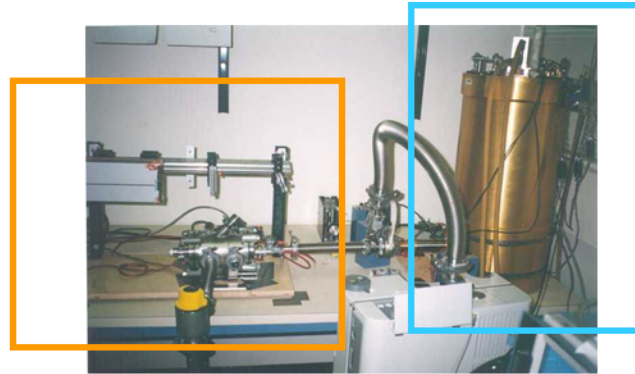


R&D prototype 1998

MALDI TOF from Neuchâtel

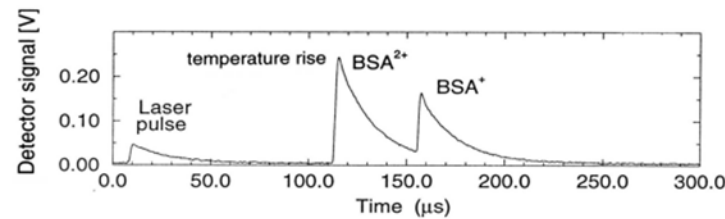
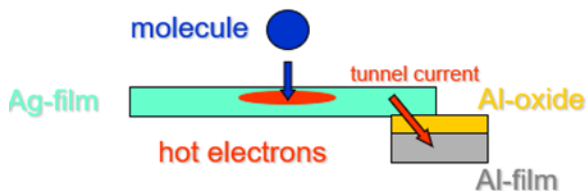


ADR cryostat from NIST (Boulder)

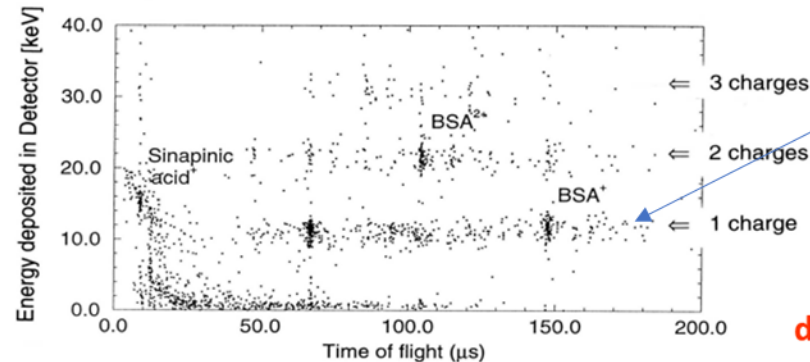
collaboration (1998)

- NIST (Boulder)
- Institut Physique, Neuchâtel
- GenSpec SA

200 μm x 200 μm microcalorimeter operated at 100 mK



mass BSA : 66 kDa



every dot is a single molecule

detector signal = "temperature rise" owing to absorbed kinetic energy of accelerated molecule in MALDI-TOF mass spectrometer

G.Hilton, J.M.Martinis, D.A.Wollmann, K.D.Irwin, L.L.Dulcie, D.Gerber, P.M.Gillevet & D.Twerenbold, Nature, Vol 391, page 672, 12.February 1998

no mass limit !